European Journal of Operational Research 47 (1990) 407–408
North-Holland

Contents Volume 47

1 Introduction to computation and learning in artificial neural networks (*Invited Review*)
E. Másson and Y.-J. Wang
29 Group decision support systems implement Bayesian rationality
B. Sinclair-Desgagne
35 Job oriented production scheduling
N.A.J. Hastings and C.-H. Yeh
49 Scheduling stochastic jobs with due dates on parallel machines
H. Emmons and M. Pinedo
56 Minimizing the makespan with late start penalties added to processing times in a single facility scheduling problem
A.S. Kunnathur and S.K. Gupta
65 Some efficient heuristic methods for the flow shop sequencing problem
E. Taillard
75 An efficient implementation of local search algorithms for constrained routing problems
M.W.P. Savelsbergh
86 The Hamiltonian *p*-median problem
I.M. Branco and J.D. Coelho
96 Calculating solution-value bounds for a geostationary-satellite location problem
C.H. Reilly and F. Mata
115 Spatial activity allocation modelling: The dominant eigenvalue and its corresponding eigenvector
E. Dietzenbacher
123 OR Software
ORSEP—Operations Research Software Exchange Program, *H.W. Hamacher (ed.)*
125 OR Software, *H. Thiriez (ed.)*
127 Book Reviews, *K.B. Haley and A.M. Tobias (eds.)*
134 Short Book Reviews, *K.B. Haley and A.M. Tobias (eds.)*
136 EURO Bulletin, *M. Despontin (ed.)*

139 Editorial, *R.A. Thietart (Special Issue on Management of Technology and Innovation)*
141 The dynamics of technology and strategy
W.F. Hamilton
153 Alternative frameworks for technology strategy
G.R. Mitchell
162 An interactive framework for formulating and evaluating a system incorporating new technologies
A.H. de Silva, G. De Leo and N. Gennari
172 Cooperative strategy in commercializing an emerging technology
W. Shan and K. Visudtibhan
182 Product innovation: A tool for competitive advantage
R. Angelmar
190 Comparing successful and less successful new innovative businesses
A. Picot, U. Laub and D. Schneider
203 Management systems for innovation and productivity
B.S. Chakravarthy
214 Integrating manufacturing strategy and technology choice
P.R. Kleindorfer and F.Y. Partovi
225 A strategic analysis of Flexible Manufacturing Systems
M.M. Tombak
239 How to arrive at computer integrated manufacturing: A 3-year survey
A. De Meyer
248 Technology selection models for multi-stage production systems: Joint application of physical system theory and mathematical programming
N. Singh and Sushil
262 OR Software, *H. Thiriez (ed.)*
264 Short Book Reviews, *L.F. Gelders (ed.)*
266 EURO Bulletin, *M. Despontin (ed.)*

0377-2217/90/$3.50 © 1990, Elsevier Science Publishers B.V. (North-Holland)

271 A state-of-the-art review of parallel-machine scheduling research (*Invited Review*)
T.C.E. Cheng and C.C.S. Sin
293 Multi-criteria analysis and budget reallocation in long-term research planning
F.A. Lootsma, T.C.A. Mensch and F.A. Vos
306 Integration of air pollution control technologies in linear energy–environmental models
J. Remmers, Th. Morgenstern, G. Schons, H.-D. Haasis and O. Rentz
317 Metamodelling and experimental design: Case study of the greenhouse effect
J. Rotmans and O.J. Vrieze
330 The evaluation and analysis of retail sales promotions
J. Preston and A. Mercer
339 The influence of product range in the space allocation procedure
J. Preston and A. Mercer
348 The optimum markup when bidding with uncertain costs
M. King and A. Mercer
364 Criteria for evaluating purchase quantity decisions in response to future price increases
E.P. Markowski
371 Dynamic firm behavior within an uncertain environment
P.M. Kort
387 Implicit games: Analysis of asymptotic competitive behaviors
A. Namatame and E. Tse
394 OR Software, *H. Thiriez (ed.)*
396 Book Reviews, *K.B. Haley and A.M. Tobias (eds.)*
403 Short Book Reviews, *L.F. Gelders (ed.)*
405 EURO Bulletin, *M. Despontin (ed.)*
407 Contents Volume 47